

PAPAHĀNAUMOKUĀKEA Marine National Monument

Update on East Island Recovery Post - Hurricane Walaka

Reserve Advisory Council Meeting Inouye Regional Center, Ford Island June 6, 2019

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PAPAHĀNAUMOKUĀKEA Marine National Monument



Data SIO, NOAA, U.S. Navy, NGA, GEBCO Data LDEO-Columbia, NSF, NOAA Image © 2019 DigitalGlobe Image Landsat / Copernicus

Google Earth

Photo: Civil Beat

National and International Headlines SOEST 3 2 OCEAN 08 LIFE 📚 CLIMATE

Chip Fletcher: Memorial for a 2,171-year-Remote Hawaiian island vanishes underwold island Posted on November 26, 2018 by Marcie Grabowski hurricane

R.I.P. EAST ISLAND USA TODAY NETWORK Josh Hafner, USA TODAY Published 6:33 p.m. ET Oct. 24, 2018 | Updat



1 EMAIL MORE A remote Hawaiian island vanished underwater after

powerful hurricane struck earlier this month according to federal officials citing satellite images.

(Photo: Twitter/@NathanEagle)

East Island, a strip of gravel and sand northwest of Honolulu, "appears to be under water'

The recent loss of East Island in the Pahahanaumokuakea Marine Ine recent loss of Last Island in the Pahahanaumokuakea Marine National Monument to rising sea level demonstrates the need to stop after Hurricane Walaka surged past the state, the Papahanaumokuakea Marine National Monument said in a Tuesday statement.

a' Chip Fletcher, earth sciences professor and associate dean in SOEST, The island has played a key role in the survival of beleaguered seals and sea (Published a video op-ed in the Honolulu Civil Beat. said the officials, who are "working to better understand the implications" of th sunken status.

Watch the video here. "There's no doubt that it was the most important single islet for sea turtle nesting," Charles Littnan, a biologist with the National Oceanic and Atmo Administration, told the Honolulu Civil Beat, which first reported the isla disappearance

The 11-acre isle acted as nesting grounds for half the world's Hawaiian green sea turtles, the Civil Beat reported. It served as the birthplace for roughly one-seventh of all Hawaiian monk seals.

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153 B.C. - 2018

Video credit: Chip Fletcher and Honolulu Civil Beat.

East Island, Remote Hawaiian Sliver of Sand, Is Largely Wiped Out by a Hurricane

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ATMOSPHERE A EARTH

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t, was an 11-acre sliver of land in the peared. Dan Link/US Fish and Wildlife Service

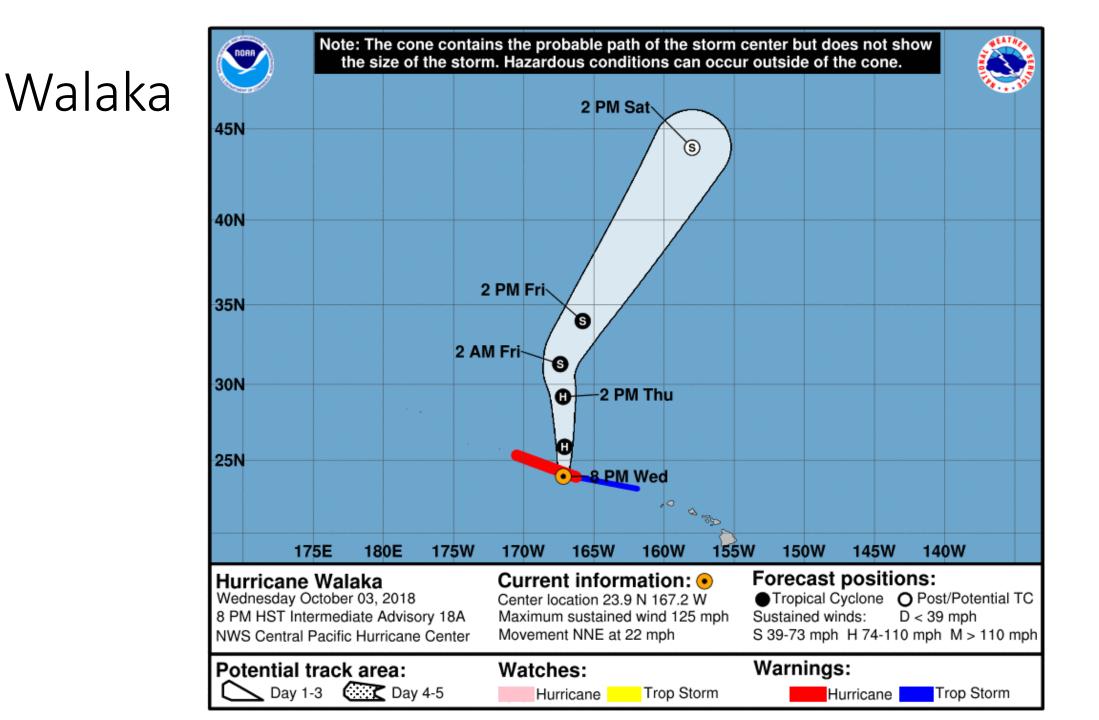
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Then, it was mostly gone.

swept through the central Pacific this aptured in images as an 11-acre sliver of sand om the turquoise ocean.

comment officials confirmed that the island, in the i the Hawaiian archipelago, had been largely er, said Athline Clark of the National Oceanic and inistration. East Island is the second island to ent months from French Frigate Shoals, a crescentruding many islets, Ms. Clark said.

, a climate scientist with the University of Hawaii who dying East Island's natural history, said it comprises loose ravel rather than solid rock. His team had just taken a samples from the island in July. But late last week, he said, lerted by government officials that it had mostly disappeared.



Walaka vs. East Island

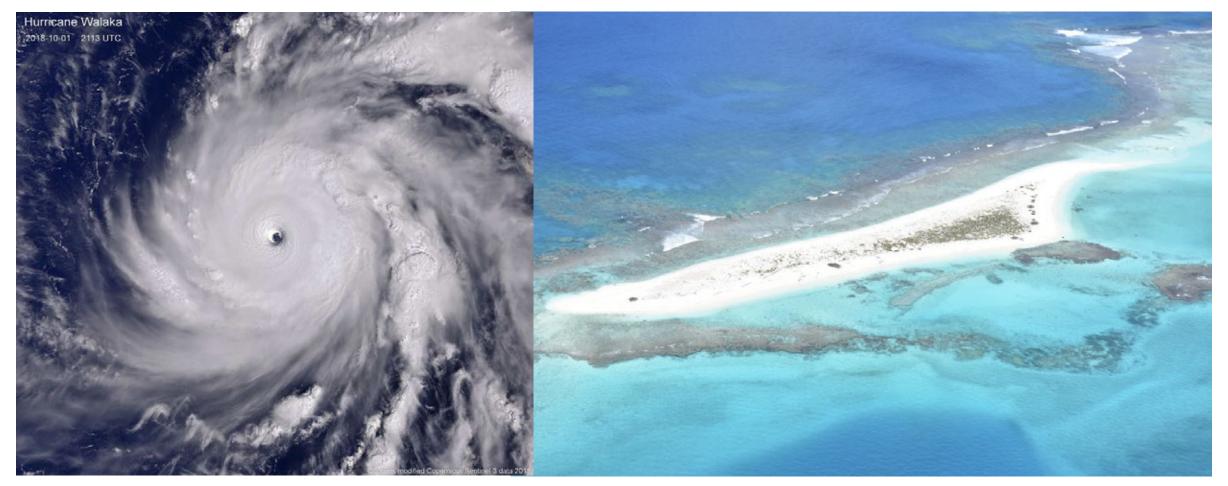
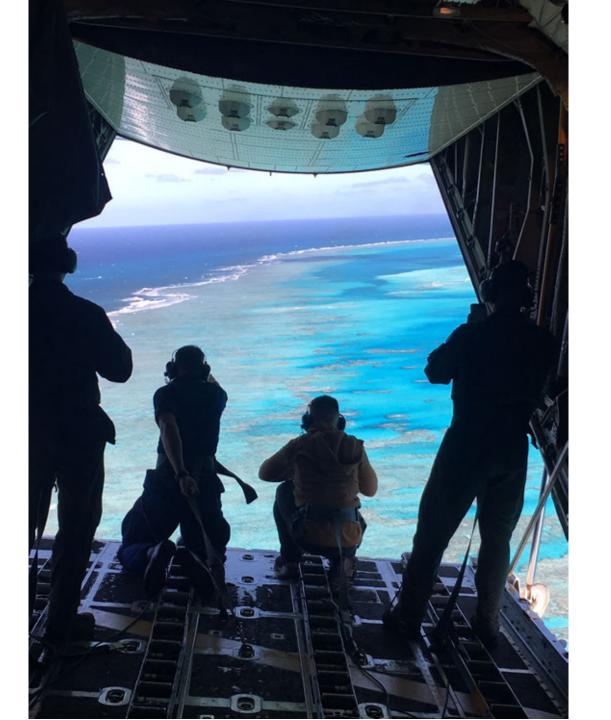
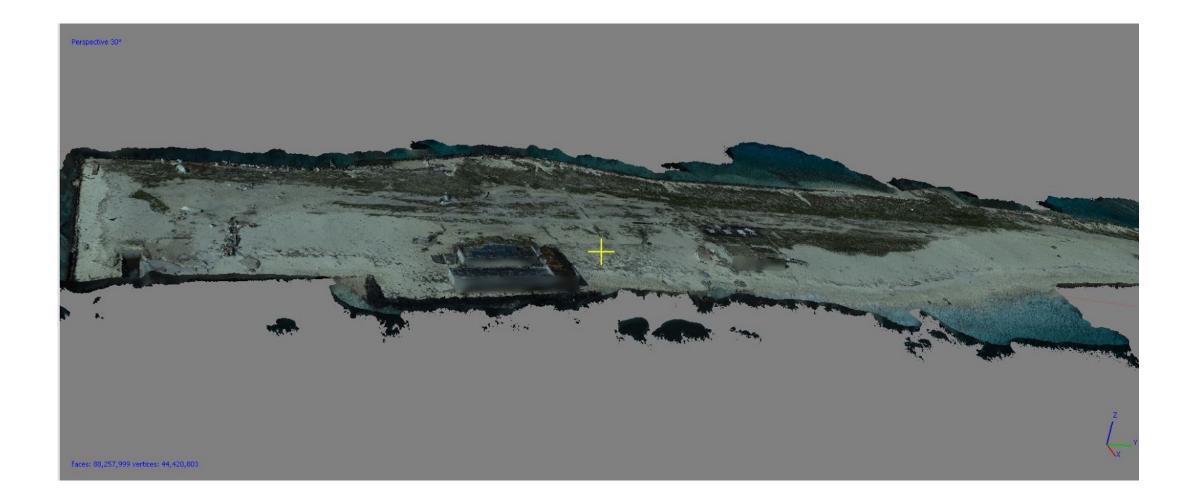


Photo: Left, NOAA. Right, Civil Beat







Resolution: 3.7 m²

Time Series

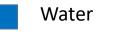
- Sept 25, 2018 (Prior to Walaka)
- Oct 13, 2018
- Dec 13, 2018
- Jan 09, 2019
- Feb 22, 2019
- April 01, 2019



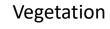


Photos: Planet Labs



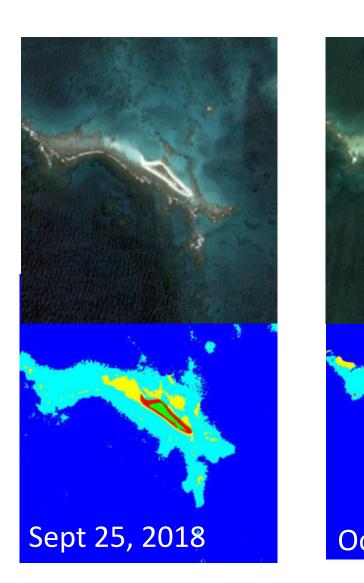


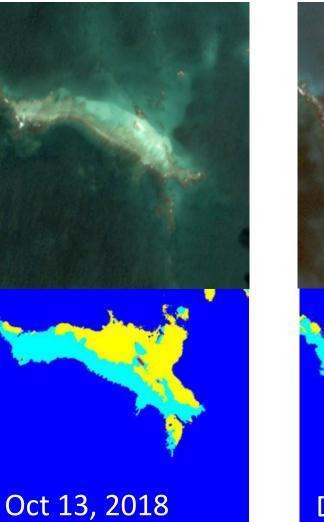
Shallow Sand

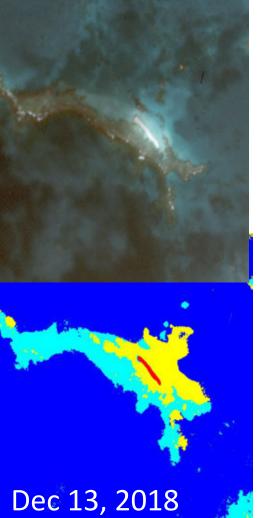


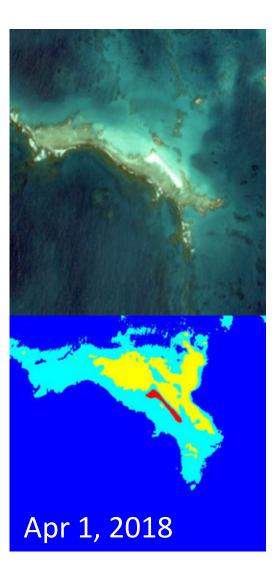














QUESTIONS?

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